



**KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI**  
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## **ELECTRONIC THESIS AND DISSERTATION UNSYIAH**

### **TITLE**

**AKTIVITAS BIOHERBISIDA EKSTRAK METANOL DARI BABADOTAN (AGERATUM CONYZOIDES) TERHADAP PERTUMBUHAN BAYAM DURI (AMARANTHUS SPINOSUS)**

### **ABSTRACT**

#### **Abstract**

Ira Fazira (1205101050012). Activity bio herbicides extract methanol of babadotan (*Ageratum conyzoides*) on the growth of spinach spines (*Amaranthus spinosus*) Under the guidance of Siti Hafsah as the chair and Gina Erida as a member

Weeds is herbs undesired its existence and very harmful for plants and distorts the benefit of man in trying to establish a agricultural products. Weeds significantly can be lowered produce plants because become main competitors in win a water, element hara and the light of the sun. Material losses by weed very vary depending to the population and its kind. To reduce the use of herbicides synthetic need to used herbicides organic as an alternative control one of them use compound of a metabolite secondary of plants to isolate those compounds using methanol solvent. This study lasted from april to july 2016, in the laboratory FKIP chemical, the science of weeds laboratory the faculty of agriculture, biological laboratories graduate and gardens experiment the faculty of agriculture syiah kuala university Banda Aceh. This design use design random complete ( ral ) non-faktorial with 5 treatment: k0 = control; K1 = 5 %; K2 = 10 %, K3 = 15 % and K4; 20 % that is repeated three times, and there were 15 a unit of experiment .Every remedial there were 4 pot and there are control positive using herbicides synthetic 2,4 D by contrast.

The research results show that extracts methanol babadotan has not been affecting the tall plant on observation 7 , 14 , 21 HSA and influential on 28 HSA, Number of leaves did not influence his 7 and 14 HSA and influential on 21 and 28 HSA, broad leaves no effect on 7, 14, 21 and 28 HSA, dry weight header did not influence his 14, 21 and 28 HSA, but influential on 7 HSA, weight dried root no effect on 7, 14, 21 and 28 HSA, growth rate relatively no effect on 7, 14 and 21. Extract methanol babadotan impact on all observation the percentage weed control.

**Keywords :** *Ageratum conyzoides*, Methanol, Bio herbicides, *Amaranthus spinosus*